

Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v3.5.64



Product: 3071898 - PE100 Cab.prot. BK/RD 125x11.4 L=100 CL
Unit: 1 piece
Manufacturer: Wavin - DE - Westeregeln - verified
Address: Borrweg 10
39448 Börde-Hakel
Germany
Contact: https://www.wavin.com/en-en

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 11-08-2022
End of validity: 11-08-2027
Verifier: Martijn van Hövell - SGS Search



This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - DE - Westeregeln - verified (2020). (☑ = module declared, MND = module not declared).

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
☑	☑	☑	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	☑	☑	☑	☑
Product stage					Use stage							End-of-Life stage				
A1 Raw material supply A2 Transport A3 Manufacturing					B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment B6 Operational energy use B7 Operational water use							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal				
Construction process stage					Benefits and loads beyond the system boundaries											
A4 Transport gate to site					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	8.27E+2	1.58E+1	1.96E+1	8.63E+2	1.09E+1	3.53E+2	6.01E+0	-5.44E+2	6.88E+2
GWP-f	kg CO2 eq	8.23E+2	1.58E+1	1.58E+1	8.55E+2	1.08E+1	3.53E+2	6.01E+0	-5.42E+2	6.83E+2
GWP-b	kg CO2 eq	4.03E+0	7.28E-3	1.78E+0	5.83E+0	6.59E-3	-4.34E-1	4.51E-3	-2.06E+0	3.35E+0
GWP-luluc	kg CO2 eq	2.46E-1	5.78E-3	2.02E+0	2.27E+0	3.84E-3	6.09E-2	8.62E-5	-1.23E-1	2.22E+0
ODP	kg CFC11 eq	4.51E-5	3.48E-6	1.93E-6	5.05E-5	2.50E-6	7.93E-6	1.28E-7	-2.60E-5	3.51E-5
AP	mol H+ eq	3.07E+0	9.15E-2	9.60E-2	3.26E+0	6.18E-2	3.33E-1	3.06E-3	-1.50E+0	2.16E+0
EP-fw	kg P eq	1.36E-2	1.59E-4	3.65E-4	1.41E-2	8.92E-5	1.76E-3	3.97E-6	-6.75E-3	9.19E-3
EP-m	kg N eq	5.13E-1	3.22E-2	1.86E-2	5.64E-1	2.21E-2	9.70E-2	2.16E-3	-2.74E-1	4.11E-1
EP-T	mol N eq	5.72E+0	3.56E-1	1.90E-1	6.27E+0	2.44E-1	1.07E+0	1.24E-2	-3.05E+0	4.54E+0
POCP	kg NMVOC eq	2.74E+0	1.02E-1	5.47E-2	2.90E+0	6.96E-2	3.37E-1	4.87E-3	-1.42E+0	1.89E+0
ADP-mm	kg Sb eq	7.41E-3	4.00E-4	5.11E-4	8.32E-3	2.81E-4	1.32E-3	3.07E-6	-3.50E-3	6.42E-3
ADP-f	MJ	2.93E+4	2.38E+2	1.82E+2	2.97E+4	1.66E+2	1.06E+3	9.36E+0	-1.63E+4	1.47E+4
WDP	m3 depriv.	6.31E+2	8.51E-1	1.16E+2	7.47E+2	5.11E-1	2.08E+1	4.29E-2	-3.16E+2	4.53E+2
PM	disease inc.	2.92E-5	1.42E-6	8.07E-7	3.15E-5	9.79E-7	5.48E-6	6.43E-8	-1.19E-5	2.61E-5
IR	kBq U-235 eq	2.52E+1	9.97E-1	4.52E-1	2.67E+1	7.28E-1	3.18E+0	4.36E-2	-9.81E+0	2.08E+1
ETP-fw	CTUe	5.26E+3	2.12E+2	4.79E+2	5.95E+3	1.35E+2	1.20E+3	8.25E+0	-2.36E+3	4.93E+3
HTP-c	CTUh	2.15E-7	6.88E-9	1.79E-8	2.40E-7	4.81E-9	1.42E-7	2.27E-10	-1.12E-7	2.75E-7
HTP-nc	CTUh	5.11E-6	2.32E-7	4.70E-7	5.81E-6	1.61E-7	1.80E-6	5.25E-9	-2.51E-6	5.27E-6
SQP	Pt	1.11E+3	2.06E+2	1.59E+1	1.33E+3	1.42E+2	8.44E+2	2.40E+1	-5.16E+2	1.83E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.72E+2	2.98E+0	1.09E+3	1.56E+3	2.39E+0	5.21E+1	3.70E-1	-2.35E+2	1.38E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.72E+2	2.98E+0	1.09E+3	1.56E+3	2.39E+0	5.21E+1	3.70E-1	-2.35E+2	1.38E+3
PENRE	MJ	3.14E+4	2.53E+2	1.95E+2	3.19E+4	1.77E+2	1.13E+3	9.93E+0	-1.75E+4	1.56E+4
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.14E+4	2.53E+2	1.95E+2	3.19E+4	1.77E+2	1.13E+3	9.93E+0	-1.75E+4	1.56E+4
PET	MJ	3.19E+4	2.56E+2	1.28E+3	3.34E+4	1.79E+2	1.18E+3	1.03E+1	-1.78E+4	1.70E+4
SM	kg	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0
FW	m3	9.54E+0	2.90E-2	2.75E+0	1.23E+1	1.88E-2	6.11E-1	1.16E-2	-4.83E+0	8.13E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.89E-3	6.03E-4	2.64E-4	4.75E-3	4.26E-4	1.72E-3	1.12E-5	-4.78E-3	2.13E-3
NHWD	kg	2.65E+1	1.51E+1	3.39E-1	4.19E+1	1.03E+1	5.19E+1	4.12E+1	-1.32E+1	1.32E+2
RWD	kg	2.75E-2	1.56E-3	6.32E-4	2.97E-2	1.13E-3	4.03E-3	6.12E-5	-9.11E-3	2.59E-2
CRU	kg	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0



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